

CLAIMS

1. A lid (4) of a rear trunk (3) for a convertible vehicle (1) whose roof (2) is foldable into the rear trunk (3) of said vehicle (1), the lid having two front
5 pivot assemblies (5) adapted to cause the lid (4) of the rear trunk (3) to pivot forwards, and two rear pivot assemblies (7) adapted to cause said lid (4) to pivot rearwards, each of the pivot assemblies (5, 7) comprising a base (9) secured to the bodywork (10) of the vehicle
10 (1), a body (11) connected to the lid (4) of the rear trunk (3) by a hinge-forming member (12) and comprising a first engaging element (13) adapted to be releasably received by a second engaging element (14) of complementary shape forming part of the corresponding
15 base (9), and locking means for locking the body (11) in its position where it is locked relative to said base (9), the lid being characterized in that the locking means comprise hook-forming means (15) pivotally mounted on the base (9) and adapted to engage with a
20 complementary bearing shape (17, 21) of the first engaging element (13) to bear against said bearing shape (17, 21) and guide the end of the pivoting movement of the lid (4) into the corresponding locked position.
- 25 2. A rear trunk lid according to claim 1, characterized in that the first engaging element (13) includes a wall (17) extending substantially perpendicularly to the path (18) of said first element (13) coming into its locked position in the corresponding base (9), and in that the
30 hook (15) is shaped and disposed in such a manner that its free end (20) bears against said wall (17) to urge the first engaging element (13) towards its locked position in the corresponding base (9) and to lock it therein.
- 35 3. A rear trunk lid according to claim 1, characterized in that the first engaging element (13) includes a lug

(21) projecting transversely towards the hook (15), and in that the hook (15) is shaped and disposed in such a manner that its free end (20) bears against said lug (21) to urge the first engaging element (13) towards its
5 locked position in the corresponding base (9), and to lock it therein.

4. A rear trunk lid according to any preceding claim, characterized in that it includes means for causing each
10 hook (15) to pivot in one direction or the other in order to lock or release the first engaging element (13).

5. A rear trunk lid according to claim 4, characterized in that the means (26) for pivoting each hook (15)
15 comprise a motor (26) adapted to turn the pivot pin (25) of the hook (15) directly or to drive a wormscrew (27) meshing with a set of teeth (28) secured to the hook (15) or a gearwheel (27a) meshing with a rack (35) carrying a finger (36) bearing against one wall (37) or the other
20 wall (38) of a notch (39) formed in the hook (15), or to drive a stationary pivoting nut (29) which on rotating drives a screw (30) carrying a ball (31) bearing against one wall (32) or the other wall (33) of a slot (34) formed in the hook (15), or to cause one of two pivot
25 arms (55, 56) each hinged at one end to the second engaging element (141) and at the other end to the hook (15) to turn.

6. A rear trunk lid according to any preceding claim, characterized in that the first engaging element (13) is
30 a male element that is substantially wedge-shaped, and the second engaging element (14) is a female element including a cavity (16) that is substantially wedge-shaped and adapted to receive said male, first element
35 (13).

7. A rear trunk lid according to claim 6, characterized in that the wedge shape of each engaging element (13, 14) extends in a vertical plane extending transversely relative to the lid (4).

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8. A rear trunk lid according to any preceding claim, characterized in that the hinge-forming member (12) of each pivot assembly (5, 7) is a pivot pin (44) extending in the transverse direction (45) of the lid (4) and carried by an arm (46) having the corresponding wedge-shaped male element (13) secured thereto.

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9. A rear trunk lid according to any one of claims 1 to 7, characterized in that the hinge-forming member (12) of each pivot assembly (5, 7) comprises two substantially parallel links (40) each hinged at one end (41) to the lid (4) and at the other end (42) to an arm (43) secured to the corresponding first engaging element (13).

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10. A rear trunk lid according to any preceding claim, characterized in that each pivot assembly (5, 7) includes a return spring (47) placed between the lid (4) and the corresponding body (11) and urging the lid (4) into its closed position.

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11. A convertible vehicle (1) having a roof (2) that is foldable into the rear trunk (3) of said vehicle (1), the vehicle being characterized in that it includes a rear trunk lid (4) according to any preceding claim, and means, e.g. actuator type means (60) for causing the lid (4) to pivot forwards in a first direction (6) or rearwards in the opposite direction (8) between its closed position and one or other of its open positions (4a, 4b), the vehicle advantageously including means for manually unlocking at least one of the two rear pivot assemblies (7) from outside the vehicle.

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